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(71) Applicant: **MITSUBISHI GAS CHEM CO INC**

(72) Inventor: **YAMAMOTO KAZUO**

(54) **REFORMING DEVICE FOR METHANOL**

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(57) Abstract:

PURPOSE: To facilitate operation and the maintenance and inspection of device and equipment at the time of reforming a methanol-water mixed vapor in the presence of a catalyst with a combustion gas by controlling and changing the distribution ratio of the raw gas liq. mixture.

CONSTITUTION: The raw methanol-water liq. mixture separated into a passage 13 is introduced into a raw material evaporator 9 through a mixing header 10, heated by the low-temp. combustion gas after giving off its heat to a reforming tube bank, vaporized and sent to a raw gas header 4 through a raw gas header 11, and a part of the gas is introduced into a superheated gas from a raw material superheater 5 through a flow control valve B. The raw gas mixed by the raw gas header 4 is introduced into the raw gas superheater 5, heated by the high-temp. combustion gas and superheated. The superheated gas is adjusted to an optimum temp. for the reforming reaction and passed through a raw gaseous mixture inlet header 8 and a reforming tube to form a gaseous product.

